

GEORGIA INSTITUTE OF TECHNOLOGY

Engineering Experiment Station

PROJECT INITIATION

Date: 11/5/70

Project Title: **Accelerated Paint Studies**

Project No.: **A-232-540**

Project Director: **Ray Tooke**

Sponsor: **Zac-Lac Paint & Lacquer Corporation**

Effective **November 3, 1970** Estimated to run until: **December 1, 1970**

Type Agreement: **Purchase Order No. 2194** Amount: \$ **300.00**

Reports: As required

Contact Person: Mr. Murray G. McGregor
Zac-Lac Paint & Lacquer Corporation
350 Simpson Street, N. W.
Atlanta, Georgia

Assigned to **Chemical Sciences & Materials** Division

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GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest · Atlanta, Georgia 30332

November 30, 1970

ZacLac Paint and Lacquer Corporation
350 Simpson St. N.W.
P. O. Box 9217
Atlanta, Georgia 30314

Attention: Mr. McGregor

Subject: Final Report Project No. A-232-540
Two Hundred Hour Weatherometer Studies on 12 Panels



Gentlemen:

The panels' appearance properties were measured with a Photovolt Reflectometer, using a 0°-45° Reflectance Head and a 60° Gloss Head.

The procedure was run in accordance with Fed. Method 6152 of Fed. Method Std. No. 141 for 200 hours.

The results are shown in Table I.

Yours very truly,

David R. Hurst
Principal Research Technician

DRH/sc

Enclosure - 12 Samples

Approved

W. R. Tooke, Jr., Head
Industrial Products Branch

TABLE I
SUMMARY OF OBSERVATIONS OF ACCELERATED WEATHERING TEST

Panel No.	Gloss		Tristimulus Color Observation						Lightness Index*
	Initial	Final	Amber		Blue		Green		ΔL
			Initial	Final	Initial	Final	Initial	Final	
1	1	1	28.5	28.5	17.5	18.5	26.0	27.5	1.450
1A	1	1	28.5	28.5	17.5	18.0	26.0	26.5	.488
2	2	1	30.5	33.0	19.5	23.0	27.5	31.0	3.237
2A	2	1	30.5	33.0	19.5	23.0	27.5	30.5	2.786
3	1.5	1.5	30.0	29.5	18.5	18.5	27.5	27.0	- .479
4	1.5	1.5	28.5	29.0	17.5	18.0	26.0	27.5	1.45
5	1.0	1.0	28.5	29.0	17.5	17.0	26.0	26.5	.488
6	1.0	1.5	29.5	28.5	17.8	17.0	26.5	26.0	- .488
7	4.0	3.5	28.5	28.5	18.5	18.5	26.0	26.5	.488
8	2.0	2.5	29.5	29.0	18.5	19.5	27.0	27.5	.479
9	2.0	1.5	28.5	27.5	17.5	17.5	26.0	25.5	- .493
10	3.0	3.0	28.5	27.5	17.5	17.5	26.5	25.5	- .493

*Federal Specification Method 6122 Lightness Index Difference